WHAT IS CLAIMED IS:

1. A program executing management system comprising:

a processing element definition unit for storing, for each identification information of a process which sequentially uses a plurality of processing elements, the identification information and execution order of a plurality of processing elements used in the process;

a recovery processing element definition unit for storing the identification information of a recovery processing element to be executed when abnormality occurs, for each identification information of the plurality of processing elements;

an executing unit for referring to said processing element definition unit to obtain the identification information of a processing element to be processed next, on the basis of a processing element use request from the process, and executing the processing element corresponding to the obtained identification information; and

a recovery executing unit for, when an abnormality occurs during execution of a processing element by said executing unit, referring to said recovery processing element definition unit on the basis of the identification information of the processing element which has caused the abnormality, and executing a recovery processing element corresponding to the abnormality.

2. A program executing management system according to claim 1, wherein

an application executes the process,

said system further comprises the plurality of

5   processing elements to be sequentially used and

an application executing unit for executing the

application,

said processing element definition unit stores

the identification information and execution order of

10 a plurality of processing elements to be used, for each

identification information of an application, and

said executing unit refers to said processing

element definition unit to obtain the identification

information of a processing element to be processed

15 next, on the basis of a use request from the applica-

tion, and executes the processing element corresponding

to the obtained identification information.

3. A program executing management system

according to claim 1, further comprising a number

20 issuing unit for, when an execution request for the

process is generated, issuing an unique number

corresponding to the execution request,

wherein said executing unit identifies a

processing element use request from the process for

25 each unique number issued by said number issuing unit,

manages the number of executed processing elements for

each unique number, refers to said processing element

definition unit on the basis of the number of executed

processing elements, obtains the identification

information of a processing element to be executed

next, and executes the processing element corresponding

5   to the obtained identification information.

4. A program executing management system

comprising:

a processing element definition unit for storing,

for each identification information of a process which

10 sequentially uses a plurality of processing elements,

the identification information and execution order of

a plurality of processing elements used in the process;

a recovery processing element definition unit for

storing the identification information of a recovery

15 processing element to be executed when abnormality

occurs, for each identification information of the

plurality of processing elements;

an executing unit for, when an execution request

for the process is generated, referring to said

20 processing element definition unit on the basis of

the identification information of the process, and

sequentially executing a plurality of processing

elements corresponding to the identification

information of the process in the execution order of

25 the elements; and

a recovery executing unit for, when an abnormality

occurs during execution of a processing element by said

executing unit, referring to said recovery processing

element definition unit on the basis of the identifica-

tion information of the processing element which has

caused the abnormality, and executing a recovery

5   processing element corresponding to the abnormality.

5.   A computer-readable computer program product

comprising:

an executing code for referring to, on the

basis of a process use request from a process which

10   sequentially uses a plurality of processing elements,

the identification information and execution order of

a plurality of processing elements, stored for each

identification information of the process and to be

used in the process, obtaining the identification

15   information of a processing element to be processed

next, and executing the processing element correspond-

ing to the obtained identification information; and

a recovery executing code for, when an abnormality

occurs during execution of a processing element by

20   said executing code, referring to the identification

information of a recovery processing element, stored

for each identification information of the plurality

of processing elements and to be executed when

the abnormality has occurred, on the basis of the

25   identification information of the processing element

which has caused the abnormality, and executing

a recovery processing element corresponding to the

abnormality.

6. A computer-readable computer program product according to claim 5, wherein

the process is an application which requests
5   the use of the plurality of processing elements,

said product comprises the plurality of processing elements to be sequentially used and an application executing code for executing the application, and

said executing code refers to the identification
10 information and execution order of a plurality of processing elements, stored for each identification information of the application and to be used in the application, on the basis of a use request from the application, obtains the identification information of
15 a processing element to be processed next, and executes the processing element corresponding to the obtained identification information.

7. A computer-readable computer program product according to claim 5, further comprising a number
20 issuing code for, when an execution request for the process is generated, issuing an unique number corresponding to the execution request,

wherein said executing code identifies a processing element use request from the process for
25 each unique number issued by said number issuing unit, manages the number of executed processing elements for each unique number, refers to the identification

information and execution order of a plurality of
processing elements stored for each identification
information of the process, obtains the identification
information of a processing element to be executed next
5   on the basis of the number of executed processing
elements, and executes the processing element
corresponding to the obtained identification
information.

8.   A computer-readable computer program product
10   comprising:

an executing code for, when an execution request
for a process which sequentially uses a plurality
of processing elements is generated, referring to
a plurality of processing elements so stored as to
15   correspond to the identification information of the
process and the execution order of the elements, and
sequentially executing the plurality of processing
elements made to correspond to the identification
information of the process; and

20   a recovery executing code for, when an abnormality
occurs during execution of a processing element by
said executing code, referring to the identification
information of a recovery processing element, stored
for each identification information of the plurality
25   of processing elements and to be executed when
the abnormality has occurred, on the basis of the
identification information of the processing element

which has caused the abnormality, and executing
a recovery processing element corresponding to the
abnormality.

9. A computer-readable computer program product
comprising:

an executing code for referring to, on the basis
of a process use request from a process which
sequentially uses a plurality of processing elements,
the identification information and execution order of
a plurality of processing elements, stored for each
identification information of the process and to be
used in the process, obtaining the identification
information of a processing element to be processed
next, and executing the processing element correspond-
ing to the obtained identification information; and

a result notification code for notifying the
process of the result of execution of a processing
element by said executing code.

10. A computer-readable computer program product
comprising:

an input code for inputting the identification
information of a process which sequentially executes
a plurality of reusable processing elements, the
identification information of a plurality of processing
elements used in the process, and the execution order
of the plurality of processing elements; and

a definition code for storing, for each

identification information of the process, the

identification information of a plurality of processing

elements used in the process, and the execution order

of a plurality of processing elements used in the

5   process.

11.   A computer-readable computer program product

according to claim 10, further comprising:

an executing code for, when the identification

information of a process to be executed is input,

10   referring to the contents defined by said definition

code, and executing a processing element corresponding

to the input identification information of the process

in an execution order corresponding to the input

identification information of the process; and

15   a result notification code for notifying the

process of the result of execution of a processing

element by said executing code.

12.   A process executing management method using

a computer system, comprising:

20   the executing step of referring to, on the basis

of a process use request from a process which

sequentially uses a plurality of processing elements,

the identification information and execution order of

a plurality of processing elements, stored for each

25   identification information of the process and to be

used in the process, obtaining the identification

information of a processing element to be processed

next, and executing the processing element
corresponding to the obtained identification
information; and

the result notification step of notifying the
process of the execution result of a processing element
obtained in the executing step.

13. A process executing management method using
a computer system, comprising:

the input step of inputting the identification
information of a process which sequentially executes
a plurality of reusable processing elements, the
identification information of a plurality of processing
elements used in the process, and the execution order
of the plurality of processing elements; and

the definition step of storing, for each
identification information of the process, the
identification information of a plurality of processing
elements used in the process, and the execution order
of a plurality of processing elements used in the
process.

14. A method according to claim 13, further
comprising:

the executing step of, when the identification
information of a process to be executed is input,
referring to the contents defined in the definition
step, and executing a processing element corresponding
to the input identification information of the process

in an execution order corresponding to the input

identification information of the process; and

the result notification step of notifying the

process of the execution result of a processing element

5   obtained in the execution step.